3. (Amended once) The process of claim 52 wherein to provide a sterility assurance level of 10^{-9}, said spore is exposed to at least 52 mJ/cm^2 of said UV radiation in the range of 240 to 280 nm during said subjecting step.

4. (Amended once) The process of claim 52 wherein said radiation is delivered to said spore by at least one pulsed radiation source.

5. (Amended once) The process of claim 4 wherein each pulse delivers at least 20 mJ/cm^2 UV radiation in the range of 240 to 280 nm to said spore.

B1

6. (Amended once) The process of claim 52 wherein at least 18 mJ/cm^2 UV radiation from 240 to 280 nm is delivered in less than 1 millisecond to said spore.

7. (Amended once) The process of claim 51, wherein said radiation is delivered by more than 1 radiation source.

10. (Amended once) The process of claim 9, wherein said flash lamps each comprise a reflector and a lamp wherein the fluence of each of said flash lamps at the focal plane of said reflector is at least 45 mJ/cm^2 UV radiation in the range of 240 to 280 nm.

B2

13. (Amended once) The process of claim 51, wherein said radiation is produced by a laser.

B3

18. (Amended once) The process of claim 51, wherein said contact lens blocks at least 50 percent of the UV radiation in the range of 240 to 280 nm.

B4

20. (Amended once) The process of claim 51 wherein the minimum total energy density of said ultraviolet radiation in the range of 240 to 280 nm to microorganisms on said contact lens is at least 18 mJ/cm^2.

B5

21. (Amended once) The process of claim 20, wherein the minimum total energy density of said ultraviolet radiation in the range of 240 to 280 nm to said microorganisms is at least 30 mJ/cm^2.

22. (Amended once) The process of claim 20, wherein the minimum total energy density of said ultraviolet radiation in the range of 240 to 280 nm to said microorganisms is at least 36 mJ/cm^2.

23. (Amended once) The process of claim 20, wherein said minimum total energy density of said ultraviolet radiation in the range of 240 to 280 nm is delivered to said microorganisms in less than 20 seconds.

24. (Amended once) The process of claim 21, wherein said minimum total energy density of said ultraviolet radiation in the range of 240 to 280 nm is delivered to said microorganisms in less than 1 second.

B5

25. (Amended once) The process of claim 21, wherein said minimum total energy density of said ultraviolet radiation in the range of 240 to 280 nm is delivered to said microorganisms in less than 1 millisecond.

26. (Amended once) The process of claim 22, wherein said minimum total energy density of said ultraviolet radiation in the range of 240 to 280 nm is delivered to said microorganisms in less than 1 millisecond.

27. (Amended once) The process of claim 20, wherein said radiation is provided by a pulsed radiation source which provides at least 20 mJ/cm^2 ultraviolet radiation in the range of 240 to 280 nm per pulse to said microoganisms.

Sub D1

28. (Amended once) The process of claim 20, wherein prior to said subjecting step is the step of modifying radiation from a radiation source to eliminate wavelengths which would damage said contact lens.

B5

29. (Amended once) The process of claim 21, wherein said minimum total energy density of said ultraviolet radiation in the range of 240 to 280 nm which reaches said microorganisms, further reaches said contents of said container whereby the entire contents of said container and said medical device are sterilized.

B6

31. (Amended once) The process of claim 30 wherein said container is transmissive to at least 50 % of said ultraviolet radiation in the range of 240 to 280 nm.

Sub D2
B7

33. (Amended once) The process of claim 51 wherein said container comprises a lid and a bowl, wherein said lid and said bowl comprise thermoplastics and said lid and said bowl are transmissive to at least 50% of said radiation in the range of 240 to 280 nm in substantially all directions.

Sub D3

35. (Amended once) The process of claim 34 wherein said subjecting step follows the steps of:

(a) forming a contact lens;

(b) placing said contact lens in a container; and

B8

(c) moving said container into an apparatus comprising a radiation source;

and wherein said apparatus is light-tight during said subjecting step.

Sub D4
B9

37. (Amended once) The process of claim 35 wherein said medical device comprises a contact lens comprising UV-blocker which blocks greater than 50 % of the radiation in the range of 240 to 280 nm.

39. (Amended once) The process of claim 37 wherein, the amount of said ultraviolet radiation in the range of 240 to 280 nm delivered to said contact lens is between 18 mJ/cm^2 and 150 mJ/cm^2.

B10

40. (Amended once) The process of claim 39 wherein said flash lamps deliver at least 80 mJ/cm^2 total UV radiation in the range of 240 to 280 nm per flash to said container.

41. (Amended once) The process of claim 39 wherein said flash lamps deliver at least 100 mJ/cm^2 total UV radiation in the range of 240 to 280 nm per flash to said container.

42. (Amended once) An apparatus for delivering UV radiation to a medical device for sterilization comprising:

at least one radiation source and a reflector for each said radiation source wherein at least one said reflector directs radiation from each said radiation source to a treatment area, such that at least 3 J/cm^2 broad spectrum radiation of which at least 50 mJ/cm^2 of said radiation is UV radiation in the range of 240 to 280 nm reaches said treatment area, said treatment area is located at the focal plane of said reflector, and further said treatment area is where said medical device is placed to receive the radiation, and said apparatus further comprises a power supply which has a capacitance of 80 to 160 microFarad.

B10

Kindly add new claims 51-54 as follows:

51. A process of sterilizing a contact lens within a container comprising the step of:

subjecting said contact lens to ultraviolet radiation in the range of 240 to 280 nm, wherein said contact lens is in a hermetically sealed container, and further wherein said container is transmissive to at least 50 % of said radiation in the range of 240 to 280 nm in substantially all directions.

B11 Sub D5

52. The process of claim 51 wherein said subjecting step further provides:

subjecting said medical device to ultraviolet radiation whereby the D_{value} of Bacillus stearothermophilus, ATCC 7953, is at least 3.9 mJ/cm^2 ultraviolet radiation in the range of 240 to 280 nm to the spore.

Sub C1

53. The process of claim 52, wherein said D_{value} of Bacillus stearothermophilus, ATCC 7953, can be determined for a container by dividing 3.9 mJ/cm^2 by the transmissivity of said container exposed to said radiation source.

54. The process of claim 53, wherein the D_{value} of Bacillus stearothermophilus is at least 7.8 mJ/cm^2 ultraviolet radiation in the range of 240 to 280 nm to the outside of said container,

said container has a 50 % transmissivity to said ultraviolet radiation in the range of 240 to 280 nm.

B11